Attorney Docket No. 1614.1352

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of:

Keisuke IMAI, et al.

Application No.: Group Art Unit:

Filed: July 29, 2003 Examiner:

For: OPTICAL TRANSMITTER AND ITS CONTROL METHOD

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
PO Box 1450
Alexandria, VA 22313-1450

Sir:

In accordance with the duty of disclosure provisions of 37 CFR § 1.56, there is hereby provided certain information which the Examiner may consider material to the examination of the subject U.S. patent application. It is requested that the Examiner make this information of record if it is deemed material to the examination of the subject application.

1. Enclosures accompanying this Information Disclosure Statement are:

1a. ☒ Form PTO-1449.
1b. ☒ Copies of IDS citations.
1c. ☐ An English language copy of search report(s) from a counterpart foreign application or a PCT International Search Report.
1d. ☒ English language translation (complete or relevant portion(s)) attached to each non-English language publication.
1e. ☒ Explanations of Relevancy of References (ATTACHMENT 1(e), hereto) for providing a concise explanation of each non-English publication.

2. ☒ In accordance with 37 CFR § 1.98, a concise explanation of what is presently understood to be the relevance of each non-English language publication is

(Check appropriate Items 2a, 2b, 2c and/or 2d)

2a. ☐ satisfied because all non-English language publications were cited on the enclosed "English-language version of the search report or action which indicates the degree of relevance found by the foreign office". (See MPEP 609, Minimum Requirements for an Information Disclosure Statement, Part A(3): Concise Explanation of Relevance, pp. 600-100 to 600-101, Rev. 1, Feb. 2000.)
2b. ☐ set forth in the application.

2c. ☒ satisfied because an English language translation (complete or relevant portion(s)) is attached to each non-English language publication.

2d. ☒ enclosed as Attachment 1(e), hereto.

3. No admission is made that the information cited in this Statement is, or is considered to be, material to patentability nor a representation that a search has been made (other than search report(s) from a counterpart foreign application or a PCT International Search Report, if submitted herewith). 37 CFR §§ 1.97(g) and (h).

Respectfully submitted,

STAAS & HALSEY LLP

Dated: July 29, 2003

By: _____

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FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTORNEY DOCKET NO. 1614.1352	APPLICATION NO.
LIST OF REFERENCES CITED BY APPLICANT	FIRST NAMED INVENTOR Keisuke IMAI, et al.	
(Use several sheets if necessary)	FILING DATE July 29, 2003	GROUP ART UNIT

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NO.	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						

FOREIGN PATENT DOCUMENTS

		DOCUMENT NO.	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION YES	TRANSLATION NO
	AG	5-142504	06/1993	Japan			abs	
	AH	3-251815	11/1991	Japan			abs	
	AI	2,624,499	05/1997	Japan				X
	AJ							
	AK							
	AL							

OTHER REFERENCES (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)

	AM	
	AN	
	AO	

EXAMINER	DATE CONSIDERED
EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

ATTACHMENT 1(e)

EXPLANATIONS OF RELEVANCY OF REFERENCES	ATTORNEY DOCKET NO. 1614.1352	APPLICATION NO.
	FIRST NAMED INVENTOR Keisuke IMAI, et al.	
	FILING DATE July 29, 2003	GROUP ART UNIT

Japanese reference AG discloses an optical transmitter which uses a Mach-Zehnder optical modulator and eliminates the use of a capacitor between the optical modulator and a driving circuit by applying a bias voltage to a bias electrode.

Japanese reference AH (which corresponds to Japanese reference AI) discloses a control system of a Mach-Zehnder optical modulator, which stabilizes the light signal from the optical modulator and prevents deterioration of the extinction ration by holding an optimum operation point.